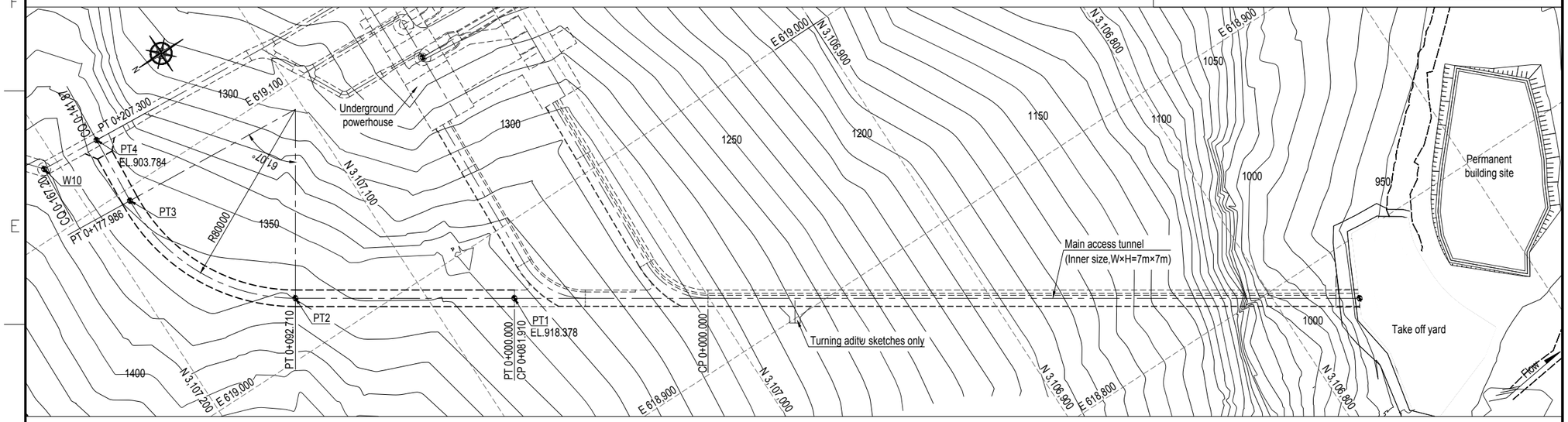
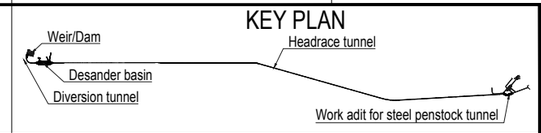
Plan Layout of Work Adit for Steel Penstock Tunnel

Scale 1:1000



KEY PLAN



NOTE

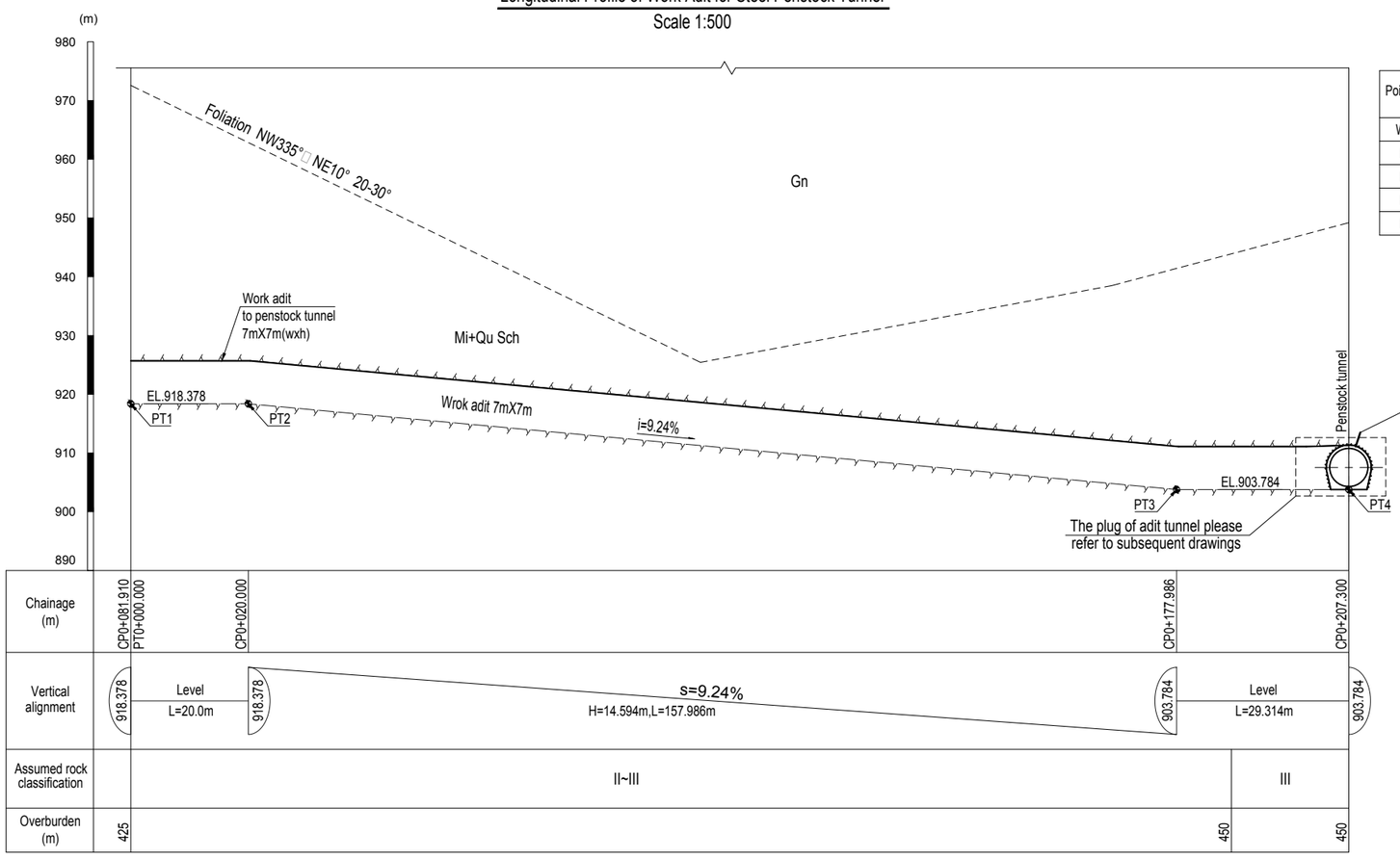
1. All dimensions are in millimeters, and coordinates, chainages & elevations are in meters.
2. The designer shall provide alternatives and options in the tunnel support design, so that the support can be adjusted in case geological conditions are varying.
3. The end position of the adit may be ajusted according to the final design of the penstock tunnel.
4. Theses rock classes and length estimates in drawings are purely speculative, and all rock classes may be encountered.

LEGEND:

- Gn — Gneiss
- Mi+Qu.Sch — Interbedded mica schist and quartz-schist
- SW / MW — Inferred boundry between moderately weathered and slight weathered
- Inferred lithology boundry
- J15 280° 60° — Joint number and attitude (Dip direction/DIP)
- F12 NE12°/70° — Fault number and attitude (Dip direction/DIP)
- Inferred ground water level

Longitudinal Profile of Work Adit for Steel Penstock Tunnel

Scale 1:500



Coordinates of Control Point

Point No.	Coodinates			Remark
	E(m)	N(m)	Z(m)	
W10	619126.258	3107206.255	-	Centerline of vertical pressure shaft
PT1	618971.909	3107069.136	918.378	BP
PT2	619022.425	3107146.875	-	
PT3	619095.212	3107183.081	-	
PT4	619124.452	3107180.990	903.784	EP

Occurrence of Joints

Joint Set No.			
Occurrence	Dip direction	Dip	Remarks
J1(foliation)	340°	20°	
J2	235°	70°	
J3	25°	60°	

Mechanical Parameter of Joints

Joint type	C,ל MPa'ל	Φ,ל °ל
Foliation	0.20	35.0
Lithoclasts cementted(J2Ţ J3)	0.15	28.8

1:1000 0 10 20 30 40 50m

1:500 0 5 10 15 20 25m

REFERENCE DRAWINGS

UT1-C-300-CVL-DG-40001	General Layout Drawing of Powerhouse Area
UT1-C-090-CVL-DG-64001	Layout of Access Tunnel to Powerhouse

SYMBOL AND LEGEND

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	13,JUN,2022	First issue	Han Y.H.	Lei Y.G.	Luo L. Zhou L.S.

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT.LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE / jade CONSULT

CONTRACTOR

DOOSAN Enerbility

DRAWING TITLE

Layout Drawing of Work Adit for Steel Penstock Tunnel

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-060-CVL-DG-43001	1 OF 1	0A

A1 (594 x 841 MM)